0590
0429
#10

RAW SEQUENCE LISTING   DATE: 05/09/2002
PATENT APPLICATION: US/09/891,983A   TIME: 14:29:44

Input Set : A:\6821usol.txt
Output Set: N:\CRF3\05092002\I891983A.raw

```
 4 <110> APPLICANT: Abbott Laboratories
 5       Shah, Dinesh O.
 6       Dawson, George A.
 7       Muerhoff, A. Scott
 8       Jiang, Lily
 9       Gutierrez, Robin A.
10       Leary, Thomas P.
11       Desai, Suresh
12       Stewart, James L.
14 <120> TITLE OF INVENTION: Methods For The simultaneous Detection
15       Of HCV Antigens And HCV Antibodies
18 <130> FILE REFERENCE: 6821.US.01
20 <140> CURRENT APPLICATION NUMBER: 09/891,983A
21 <141> CURRENT FILING DATE: 2001-06-26
23 <160> NUMBER OF SEQ ID NOS: 36
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 40
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Primer
35 <400> SEQUENCE: 1
36 atagaattcc atgcagaaaa aaaacaaacg taacaccaac                40
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 46
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Primer
46 <400> SEQUENCE: 2
47 cggctgagaa cgttcagagg ttttaacgat ctgaccacca cccggg        46
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 24
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Primer
57 <400> SEQUENCE: 3
58 aaaacctctg aacgttctca gccg                                24
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 36
62 <212> TYPE: DNA
```

RAW SEQUENCE LISTING   DATE: 05/09/2002
PATENT APPLICATION: US/09/891,983A   TIME: 14:29:44

Input Set : A:\6821usol.txt
Output Set: N:\CRF3\05092002\I891983A.raw

```
 63 <213> ORGANISM: Artificial Sequence
 65 <220> FEATURE:
 66 <223> OTHER INFORMATION: Primer
 68 <400> SEQUENCE: 4
 69 tatggatcct tattacggag acagcagcca accagc                                36
 71 <210> SEQ ID NO: 5
 72 <211> LENGTH: 244
 73 <212> TYPE: DNA
 74 <213> ORGANISM: Hepatitis C Virus
 76 <400> SEQUENCE: 5
 77 gaattccatg cagaaaaaaa acaaacgtaa caccaaccgt cgtccgcagg acgttaaatt      60
 78 cccgggtggt ggtcagatcg ttaaaacctc tgaacgttct cagccgcgtg ggcgtcgtca     120
 79 gccgatcccg aaagctcgtc gtccggaagg tcgtacctgg gctcagccgg gttacccgtg     180
 80 gccgctgtac ggtaacgaag gttgcggttg ggcaggttgg ctgctgtctc cgtaataagg     240
 81 atcc                                                                   244
 83 <210> SEQ ID NO: 6
 84 <211> LENGTH: 75
 85 <212> TYPE: PRT
 86 <213> ORGANISM: Hepatitis C Virus
 88 <400> SEQUENCE: 6
 89 Met Gln Lys Lys Asn Lys Arg Asn Thr Asn Arg Arg Pro Gln Asp Val
 90 1               5                   10                  15
 91 Lys Phe Pro Gly Gly Gly Gln Ile Val Lys Thr Ser Glu Arg Ser Gln
 92             20                  25                  30
 93 Pro Arg Gly Arg Arg Gln Pro Ile Pro Lys Ala Arg Arg Pro Glu Gly
 94         35                  40                  45
 95 Arg Thr Trp Ala Gln Pro Gly Tyr Pro Trp Pro Leu Tyr Gly Asn Glu
 96     50                  55                  60
 97 Gly Cys Gly Trp Ala Gly Trp Leu Leu Ser Pro
 98 65                  70                  75
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 280
102 <212> TYPE: DNA
103 <213> ORGANISM: Hepatitis C Virus
105 <400> SEQUENCE: 7
106 gaattccatg cagaaaaaaa acaaacgtaa caccaaccgt cgtccgcagg acgttaaatt      60
107 cccgggtggt ggtcagatcg ttggtctgct gccgcgtcgt ggtccgcgtc tgggtcgtaa     120
108 aacctctgaa cgttctcagc cgcgtgggcg tcgtcagccg atcccgaaag ctcgtcgtcc     180
109 ggaaggtcgt acctgggctc agccgggtta cccgtggccg ctgtacggta acgaaggttg     240
110 cggttgggct ggttggctgc tgtctccgta ataaggatcc                           280
112 <210> SEQ ID NO: 8
113 <211> LENGTH: 87
114 <212> TYPE: PRT
115 <213> ORGANISM: Hepatitis C Virus
117 <400> SEQUENCE: 8
118 Met Gln Lys Lys Asn Lys Arg Asn Thr Asn Arg Arg Pro Gln Asp Val
119 1               5                   10                  15
120 Lys Phe Pro Gly Gly Gly Gln Ile Val Gly Leu Leu Pro Arg Arg Gly
121             20                  25                  30
```

RAW SEQUENCE LISTING   DATE: 05/09/2002
PATENT APPLICATION: US/09/891,983A   TIME: 14:29:44

Input Set : A:\6821uso1.txt
Output Set: N:\CRF3\05092002\I891983A.raw

122 Pro Arg Leu Gly Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg
123   35   40   45
124 Arg Gln Pro Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala
125   50   55   60
126 Gln Pro Gly Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp
127 65   70   75   80
128 Ala Gly Trp Leu Leu Ser Pro
129   85
131 <210> SEQ ID NO: 9
132 <211> LENGTH: 52
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: Primer
139 <400> SEQUENCE: 9
140 acccagacgc ggaccacgac gcggcagcag accaacgatc tgaccaccac cc   52
142 <210> SEQ ID NO: 10
143 <211> LENGTH: 48
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Primer
150 <400> SEQUENCE: 10
151 ccgcgtcgtg gtccgcgtct gggtcgtaaa acctctgaac gttctcag   48
153 <210> SEQ ID NO: 11
154 <211> LENGTH: 301
155 <212> TYPE: DNA
156 <213> ORGANISM: Hepatitis C Virus
158 <400> SEQUENCE: 11
159 gaattccatg cagaaaaaaa acaaacgtaa caccaaccgt cgtccgcagg acgttaaatt   60
160 cccgggtggt ggtcagatcg ttggtggtgt ttacgttctg ccgcgtcgtg gtccgcgtct 120
161 gggtgttctg gctacgcgta aaacctctga acgttctcag ccgcgtgggc gtcgtcagcc 180
162 gatcccgaaa gctcgtcgtc cggaaggtcg tacctgggct cagccgggtt acccgtggcc 240
163 gctgtacggt aacgaaggtt gcggttgggc tggttggctg ctgtctccgt aataaggatc 300
164 c   301
166 <210> SEQ ID NO: 12
167 <211> LENGTH: 94
168 <212> TYPE: PRT
169 <213> ORGANISM: Hepatitis C Virus
171 <400> SEQUENCE: 12
172 Met Gln Lys Lys Asn Lys Arg Asn Thr Asn Arg Arg Pro Gln Asp Val
173 1   5   10   15
174 Lys Phe Pro Gly Gly Gly Gln Ile Val Gly Gly Val Tyr Val Leu Pro
175   20   25   30
176 Arg Arg Gly Pro Arg Leu Gly Val Leu Ala Thr Arg Lys Thr Ser Glu
177   35   40   45
178 Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro Ile Pro Lys Ala Arg Arg
179   50   55   60
180 Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly Tyr Pro Trp Pro Leu Tyr

RAW SEQUENCE LISTING   DATE: 05/09/2002
PATENT APPLICATION: US/09/891,983A   TIME: 14:29:44

Input Set : A:\6821usol.txt
Output Set: N:\CRF3\05092002\I891983A.raw

```
181 65                    70                  75                  80
182 Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp Leu Leu Ser Pro
183                   85                  90
185 <210> SEQ ID NO: 13
186 <211> LENGTH: 45
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Primer
193 <400> SEQUENCE: 13
194 acccagacgc ggaccacgac gcggcagaac gtaaacacca ccaac                    45
196 <210> SEQ ID NO: 14
197 <211> LENGTH: 45
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Primer
204 <400> SEQUENCE: 14
205 ccgcgtcgtg gtccgcgtct gggtgttctg gctacgcgta aaacc                    45
207 <210> SEQ ID NO: 15
208 <211> LENGTH: 300
209 <212> TYPE: DNA
210 <213> ORGANISM: Hepatitis C Virus
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <222> LOCATION: (100)...(100)
215 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown, or other at
216       position 100
218 <400> SEQUENCE: 15
219 gaattccatg cagaaaaaaa acaaacgtaa caccaaccgt cgtccgcagg acgttaaatt    60
220 cccgggtggt ggtcagatcg ttggtggtgt ttacctgctn ccgcgtcgtg gtccgcgtct   120
221 gggtgttcgt gctacgcgta aaacctctga acgttctcag ccgcgtgggc gtcgtcagcc   180
222 gatccgaaag ctcgtcgtcc ggaaggtcgt acctgggctc agccgggtta cccgtggccg   240
223 ctgtacggta acgaaggttg cggttgggct ggttggctgc tgtctccgta ataaggatcc   300
225 <210> SEQ ID NO: 16
226 <211> LENGTH: 94
227 <212> TYPE: PRT
228 <213> ORGANISM: Hepatitis C Virus
230 <400> SEQUENCE: 16
231 Met Gln Lys Lys Asn Lys Arg Asn Thr Asn Arg Arg Pro Gln Asp Val
232 1               5                   10                  15
233 Lys Phe Pro Gly Gly Gly Gln Ile Val Gly Gly Val Tyr Leu Leu Pro
234           20                  25                  30
235 Arg Arg Gly Pro Arg Leu Gly Val Arg Ala Thr Arg Lys Thr Ser Glu
236           35                  40                  45
237 Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro Ile Pro Lys Ala Arg Arg
238       50                  55                  60
239 Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly Tyr Pro Trp Pro Leu Tyr
240 65                  70                  75                  80
```

W--> appears at line 220

RAW SEQUENCE LISTING   DATE: 05/09/2002
PATENT APPLICATION: US/09/891,983A   TIME: 14:29:44

Input Set : A:\6821uso1.txt
Output Set: N:\CRF3\05092002\I891983A.raw

```
241 Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp Leu Leu Ser Pro
242             85                90
244 <210> SEQ ID NO: 17
245 <211> LENGTH: 18
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Primer
252 <400> SEQUENCE: 17
253 gatcgctcga attcctcg                                          18
255 <210> SEQ ID NO: 18
256 <211> LENGTH: 20
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Primer
263 <400> SEQUENCE: 18
264 ttctagcgag cttaaggagc                                        20
266 <210> SEQ ID NO: 19
267 <211> LENGTH: 18
268 <212> TYPE: PRT
269 <213> ORGANISM: Hepatitis C Virus
271 <400> SEQUENCE: 19
272 Met Ser Thr Asn Pro Lys Pro Gln Lys Lys Asn Lys Arg Asn Thr Asn
273 1               5              10              15
274 Arg Arg
277 <210> SEQ ID NO: 20
278 <211> LENGTH: 18
279 <212> TYPE: PRT
280 <213> ORGANISM: Hepatitis C Virus
282 <400> SEQUENCE: 20
283 Asn Lys Arg Asn Thr Asn Arg Arg Pro Gln Asp Val Lys Phe Pro Gly
284 1               5              10              15
285 Gly Gly
288 <210> SEQ ID NO: 21
289 <211> LENGTH: 18
290 <212> TYPE: PRT
291 <213> ORGANISM: Hepatitis C Virus
293 <400> SEQUENCE: 21
294 Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly Gly Val Tyr Leu
295 1               5              10              15
296 Leu Pro
299 <210> SEQ ID NO: 22
300 <211> LENGTH: 18
301 <212> TYPE: PRT
302 <213> ORGANISM: Hepatitis C Virus
304 <400> SEQUENCE: 22
305 Val Gly Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val
306 1               5              10              15
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/09/2002
PATENT APPLICATION: US/09/891,983A   TIME: 14:29:45

Input Set : A:\6821usol.txt
Output Set: N:\CRF3\05092002\I891983A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; N Pos. 100

VERIFICATION SUMMARY   DATE: 05/09/2002
PATENT APPLICATION: **US/09/891,983A**   TIME: 14:29:45

Input Set : **A:\6821uso1.txt**
Output Set: **N:\CRF3\05092002\I891983A.raw**

L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60